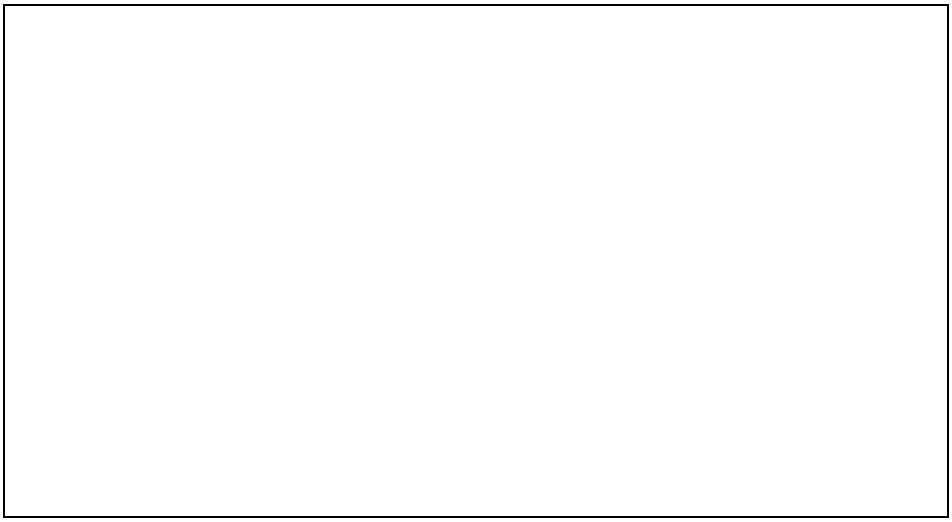
38AKS013, 014, 016 & 024

AIR-COOLED CONDENSING UNITS

— PERFORMANCE DATA

— CERTIFIED DIMENSION PRINT

— CENTER OF GRAVITY/OPERATIONAL CORNER WEIGHT DRAWING AND TABLES



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Form 38AKS-5SB Supersedes: 38AKS-4SB Printed in U.S.A. 7-00 Catalog No. 513-856

Date:	Supersedes:	3AKS013, 014, 016 & 024 AIR-COOLED CONDENSING UNITS	38AKS	Rev: -5SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

These factory-wired condensing units are easily connected by refrigerant lines and control wiring to the matching Carrier Air Handler in various combinations to provide customized packages to cover a wide range of cooling requirements. Powerful, direct-drive axial-flow fans are mounted horizontally with vertical coils resulting in a desirable low silhouette.

FEATURES

Standard one-year unit warranty and extended five-year protection plan on motor-compressor.

UL listing applies to standard base units in 208-230 and 460 volts.

Reciprocating, serviceable hermetic compressor with spring isolators, suction pressure actuated cylinder unloader, automatically reversible oil pump, thermal overload protection, and service valves.

Painted cabinet of galvanized steel, bonderized and finished with baked enamel.

Copper tube/aluminum fin condenser coils with mechanically bonded plate fins and subcooling circuit.

Speed controllable motor in #1 position for use with Motormaster® head pressure controller.

Hot gas muffler.

Specially designed direct-drive condenser fan motors with "Finger Flex" mounting to reduce vibration, permanently lubricated and inherently protected. These fans permit efficient operation which minimizes sound levels.

Holding charge of R-22.

Stub in hot gas line for easy installation of hot gas bypass valve.

Time Guard® circuit prevents compressor short cycling.

Crankcase heaters.

High- and low-pressure switches.

Excessive pressure-relief, fusible plug.

24-volt control circuit.

Fan cycle head pressure control using refrigerant pressure.

PERFORMANCE DATA

Cooling Capacity _____ Btuh

Ambient Air Temperature _____ F

Saturated Suction Temperature _____ F

Saturated Condensing Temperature _____ F

Compressor Power Input _____ kW

Condenser Fan Power Input _____ kW

Compressor Unloading Steps _____ %

Minimum Ambient Air Temperature
Standard Unit _____ F

ELECTRICAL DATA

Unit Power Supply _____ Volts _____ Ph _____ Hz.

Minimum Circuit Amps _____ . Maximum Fuse Amps _____ .

FACTORY-INSTALLED OPTIONS

☐ Condenser Coil Options:
Copper Fins
E-Coated Aluminum Fins
E-Coated Copper Fins
Pre-coated Aluminum Fins

FIELD-INSTALLED ACCESSORIES

☐ Motor Low-Ambient Head Pressure Control to –20 F Ambient
☐ 24-v Control Transformer — Relay Package
☐ Pressure-Operated Unloader to 33% (38AKS013, 014, 016 Only)
☐ Coil Grille
☐ Winter Start Time Delay Relay Package
☐ Thermostats
☐ Gage Panel
☐ Hail Guard Package
☐ Modupanel™ Control Box
☐ Hot Gas Bypass Kit
☐ Part Winding, Start Timing Relay

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER — P O BOX 4808 SYRACUSE N. Y. 13221

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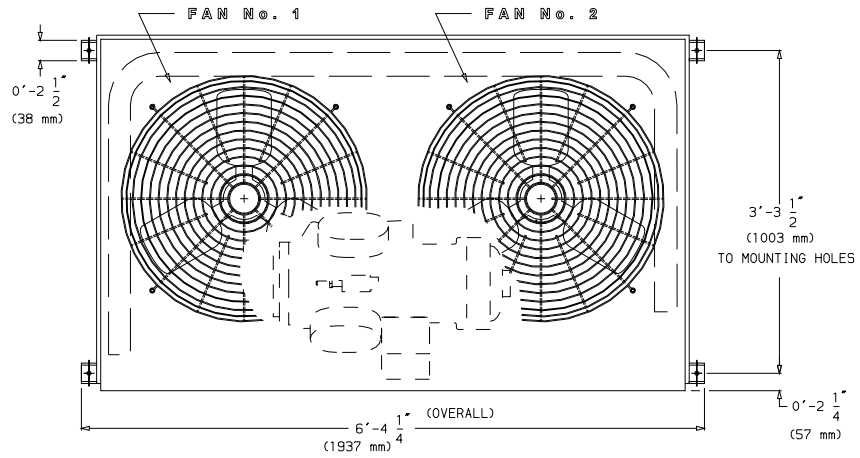
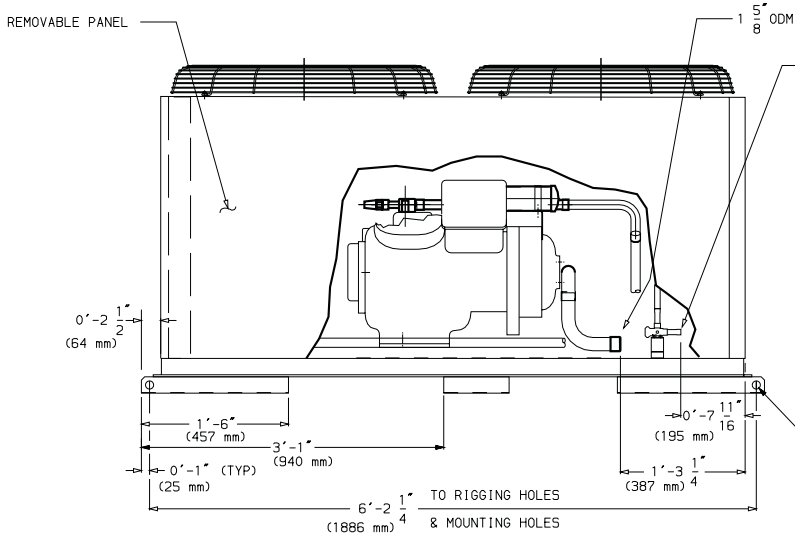
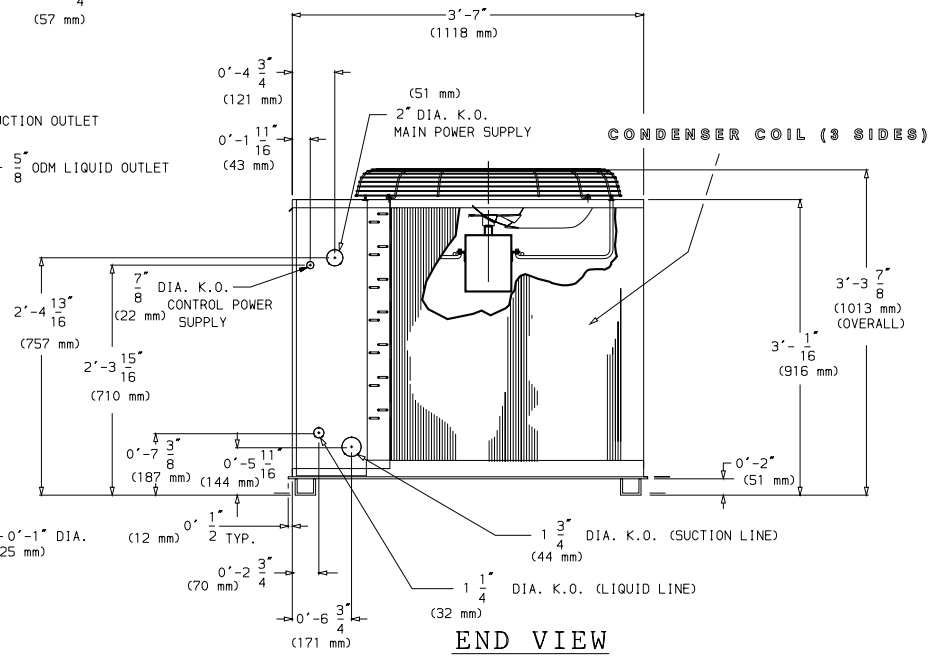
UNIT 38AKS	WEIGHT AL		WEIGHT CU	
	Lbs	Kg	Lbs	Kg
013	732	332	825	374
014	779	353	919	417
016	789	358	929	421
024	900	408	1040	472



TOP VIEW



SIDE VIEW

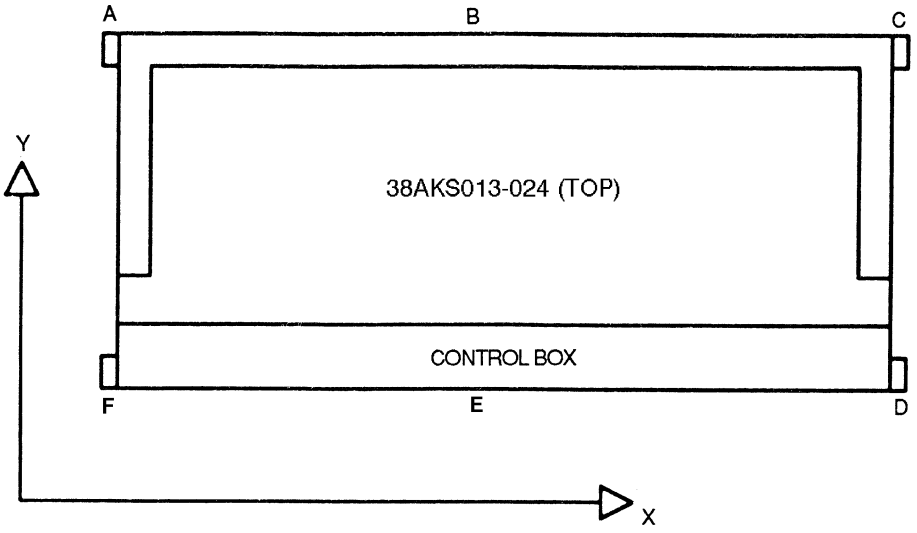

3'-7" (1118 mm)
0'-4 3/4" (121 mm)
(51 mm)
2" DIA. K.O. MAIN POWER SUPPLY
0'-1 11/16" (43 mm)
CONDENSER COIL (3 SIDES)
7/8" DIA. K.O. CONTROL POWER SUPPLY (22 mm)
2'-4 13/16" (757 mm)
2'-3 15/16" (710 mm)
3'-3 7/8" (1013 mm) (OVERALL)
3'-1/16" (916 mm)
0'-7 3/8" (187 mm)
0'-5 11/16" (144 mm)
0'-2" (51 mm)
0' 1/2" TYP. (12 mm)
1 3/4" DIA. K.O. (SUCTION LINE) (44 mm)
0'-2 3/4" (70 mm)
1 1/4" DIA. K.O. (LIQUID LINE) (32 mm)
0'-6 3/4" (171 mm)

END VIEW

DATE	SUPERSEDES		
10/22/97	7/11/95	38AKS013, 014, 016, 024 AIR COOLED CONDENSING UNIT	38AK502574 REV B

38AKS013-024

CENTER OF GRAVITY AND OPERATIONAL CORNER WEIGHTS



UNIT 38AKS	CENTER OF GRAVITY (in.)	
	X	Y
013	38	17
013C	38	19
014	38	16
014C	38	18
016	38	16
016C	38	18
024	37	17
024C	37	19

UNIT 38AKS	TOTAL WEIGHT (lb)	OPERATIONAL CORNER WEIGHTS (lb)					
		A	B	C	D	E	F
013	732	94	93	93	149	151	152
013C	825	119	116	115	157	159	159
014	779	95	94	94	164	166	166
014C	919	131	129	128	176	177	178
016	789	95	95	96	167	168	168
016C	929	131	130	130	178	180	180
024	900	119	114	113	179	185	190
024C	1040	155	150	146	191	196	202

LEGEND

C — Copper Fin Coils